NATIONAL COMMUNICABLE DISEASE CENTER

Vol. 17, No. 28

July 13, 1968

U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE

JUL 13 1968 PUBLIC HEALTH SERVICE

HEALTH SERVICES AND MENTAL HEALTH ADMINISTRATION

EPIDEMIOLOGIC NOTES AND REPORTS FOLLOW-UP PLAGUE - Denver, Colorado

The organism isolated from the blood of a 6-year-old female, living in east central Denver (MMWR, Vol. 17, No. 27), has been confirmed as Pasteurella pestis on the basis of staining characteristics, colonial morphology, phage typing, fluorescent antibody (FA) tests, and guinea pig inoculation studies. A dead squirrel found three-fourths of a block from the patient's residence has been found positive for P. pestis by FA tests.

In Denver a major die-off of the eastern fox squirrel Sciurus niger (the common tree squirrel) has been confirmed. From a total of 123 dead animals (including 3 rabbits, 10 ground squirrels, and 110 eastern fox squirrels)

CONTENTS

Epidemiologic Notes and Reports Follow-up Plague -- Denver, Colorado. . Follow-up Tularemia - Vermont... Tularemia - Ogdensburg, New York Parathion Poisoning - Texas Current Trends Measles - United States

collected in Denver, 27 eastern fox squirrels were positive for P. pestis by FA tests. To date, P. pestis has been isolated from five of these 27 squirrels. Although dead squirrels from all sectors of the city have been examined, the majority of plague positive animals were from the northeastern section of the city. Baited DDT dust boxes have been placed in trees throughout the Denver

(Continued on page 262)

TABLE I. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES (Cumulative totals include revised and delayed reports through previous weeks)

in the second to the day of the	28th WEER	ENDED	MEDIAN	CUMULATIVE, FIRST 28 WEEKS			
DISEASE	July 13, 1968	July 15, 1967	1963 - 1967	1968	1967	MEDIAN 1963 - 1967	
Aseptic meningitis	77	59	49	1,020	989	833	
Brucellosis	2	12	12	101	148	148	
Diphtheria	1		2	90	57	87	
Encephalitis, primary:			American Mark	CONTRACT OF	No. of Contract of	St. relian	
Arthropod-borne & unspecified	24	21		481	715		
Incephalitis, post-infectious	-8	14		297	495		
depatitis, serum	67	40	1	2,203	1,117	1 00 000	
Tepatitis, infectious	826	665	} 566	23,380	20,986	22,566	
Malaria	42	33	4	1.148	1,070	54	
Measles (rubeola)	325	539	2,180	18,190	55,696	232,261	
Meningococcal infections, total	36	38	38	1,729	1,475	1,672	
Civilian	36	37		1,563	1,370	1	
Military		1		166	105		
Mumps	1,270			118,369			
Poliomyelitis, total	2	2	2	29	13	31	
Paralytic	2	2	2	29	11	29	
Rubella (German measles)	427	394	11.1.	40,924	37,881	***	
Streptococcal sore throat & scarlet fever	4.907	5,439	4,278	265,609	287,399	259,662	
Cetanus	2	7	6	75	102	124	
Cularemia	11	4	10	113	86	132	
Typhoid fever	9	8	8	156	209	197	
Typhus, tick-borne (Rky. Mt. spotted fever).	9	15	14	100	128	101	
Rabies in animals	83	82	82	1.990	2.449	2,449	

TABLE II. NOTIFIABLE DISEASES OF LOW FREQUENCY

	Cum.	and the second of the second of the second of the second of	Cum.
Anthrax: Botulism: Leptospirosis: Hawaii-1 Plague: Colo1 Psittacosis: N.Mex1	3 14 1	Rabies in man: Rubella, Congenital Syndrome: Trichinosis: NYC-1. Typhus, murine: Fla1	3 38

FOLLOW-UP PLAGUE - (Continued from front page)

area as a control measure for the flea ectoparasite Orchope as howardi which infests the fox squirrel. Systematic squirrel collection and close surveillance for other dead rodents are being conducted.

On July 9, Dr. Roy Cleere, Director of Public Health. Colorado Department of Health, issued a letter to all physicians in the Denver metropolitan area and Boulder, Colorado, that reported the case of plague and included diagnostic, epidemiologic, and therapeutic information. On July 15, Dr. Cleere issued a follow-up letter to physicians

and hospitals in the greater Denver area indicating that other dead squirrels had been found in Denver. It was requested that any suspected cases of plague be reported immediately to the Epidemiology Section, Colorado Department of Health.

(Reported by R. L. Cleere, M.D., M.P.H., Director of Public Health, and Cecil S. Mollohan, M.D., M.P.H., Chief, Section of Epidemiology, Colorado Department of Health; the Zoonoses Section, Ecological Investigations Program, NCDC, Ft. Collins, Colorado; and an EIS Officer.)

FOLLOW-UP TULAREMIA - Vermont

A statewide survey performed in June of persons in Vermont known to have handled muskrats during the spring trapping and shooting season has led to the diagnosis of six additional tularemia cases in Vermont. Including the 40 cases reported earlier (MMWR, Vol. 17, Nos. 18 and 21), the total number of cases has reached 46 of which 44 have been serologically confirmed. Serologic studies are pending on two patients with clinical histories compatible with tularemia.

All 46 persons had handled muskrats taken from three streams and their tributaries which flow into the eastern shore of Lake Champlain (Otter Creek, Little Otter Creek, and Lewis Creek) (Figure 1). The attack rate for persons who handled more than 50 animals (71 percent) was significantly higher than the attack rate for persons who handled fewer than 50 animals (35 percent) (Table 1). The largest group of cases and the highest attack rate were among persons handling animals taken from Dead Creek, a tributary of Otter Creek (Table 2). Of the seven persons who trapped Dead Creek and did not become ill, three wore gloves and four handled fewer than 50 animals.

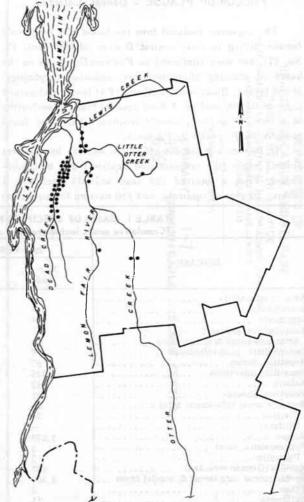
Table 1 Attack Rates in Trappers by Number of Muskrats Nandled Vermont - March 25-April 30, 1968

Number of Muskrats Handled	Number of Persons Ill	Number of Persons Well	Total	Attack Rate (Percent)	
>50	28	11	39	71	
< 50	18	33	51	35	
Total	46	44	90	51	

Approximately 100 persons who handled muskrats trapped outside Addison County (Figure 1) have been interviewed and approximately 50 percent have had their sera tested for evidence of tularemia. There have been no suggestive clinical histories of diagnostic serologies in this group.

Samples of mud and water taken during the first week of May along Dead Creek have been inoculated into guinea pigs. Following death of the animals, spleen homogenates were cultured directly. By this method, Francisella tularensis has been recovered from a set of mud and water samples taken from a point where extensive trapping had taken place. The organism was previously recovered from muskrats obtained in this area during an animal collection

Figure 1 CASES OF TULAREMIA BY AREA OF TRAPPING ADDISON COUNTY, VERMONT - 1968



survey that was in progress when the water and mud samples were collected (MMWR, Vol. 17, No. 21).

(Reported by Donald S. Bicknell, M.D., Vergennes, Vermont; Linus J. Leavens, M.D., Director, Bureau of Communicable Disease Control, and Dymitry Pomar, D.V.M., Director, Bureau of Laboratories, Vermont Department of Health; Epidemiological Services Laboratory Section, Epidemiology Program, and Bacterial Serology Unit, Laboratory Program, NCDC; and a team from NCDC.)

Table 2

Attack Rates in Trappers by Streams from Which Muskrats Were Taken

Vermont — March 25-April 30, 1968

Stream	Positive Serology* and/or Typical Symptoms**	No Symptoms and Negative Serology	Total	Attack Rate (Percent)	
Dead Creek	31	7	38	81	
Otter Creek	7	29	36	19	
Little Otter and Lewis Creeks	8	8	16	50	
Total	46	44	90		

^{*}Titer of 1:160 or higher

TULAREMIA - Ogdensburg, New York

During the last week of March and the first week of April 1968, four muskrat trappers in Ogdensburg, New York, developed fever and regional adenopathy. A lymph node biopsy on April 24 from one of these trappers revealed granulomatous lymphadenitis. All four trappers had agglutination titers against Francisella tularensis of 1:160 or higher in sera drawn from 1 to 3 months after onset of symptoms. The two sons of one ill trapper, both of whom assisted in the preparation of animals and one of whom was clinically ill, had serologies of 1:160 or greater against F. tularensis. In two trappers high titers to Brucella abortus were noted. No history of raw milk ingestion or other exposure to B. abortus was obtained; agglutination absorption studies confirmed F. tularensis infection.

Ogdensburg is located on the bank of the St. Lawrence River in northwestern New York, approximately 120 miles from Crown Point, New York, where three other cases of tularemia in muskrat trappers were recently reported (MMWR, Vol. 17, No. 20). All of the Ogdensburg trappers took their animals from the Oswegatchie River. According to trappers, this area harbored unusually large numbers of live muskrats this year and dead muskrats were apparent. Bacteriologic studies are underway on frozen specimens of muskrats trapped by these individuals. No cases of tularemia in muskrat trappers have been reported in the region between Crown Point and Ogdensburg this year.

(Reported by Hugh F. Frame, M.D., Health Officer, Odgensburg, New York; Robert Lonngren, M.D., Ogdensburg, New York; John T. Prior, M.D., Professor of Pathology, Upstate Medical Center, Syracuse, New York; Robert Bacorn, M.D., Regional Health Officer, Syracuse Regional Office, Syracuse, New York; Melvin Abelseth, D.V.M., Assistant Director, Laboratory for Veterinary Science, Mrs. Orpha Clemons, Bacteriologist, James O. Culver, M.D., Public Health Physician, Bureau of Epidemiology, and Julia L. Freitag, M.D., Director, Bureau of Epidemiology, New York State Health Department; and an EIS Officer.)

PARATHION POISONING - Texas

On June 13, 1968, 23 cotton workers near Santa Rosa, Texas, were poisoned with the chemical parathion*. Their initial symptoms were nausea, vomiting, sweating, and extreme weakness, and two patients subsequently developed acute pulmonary edema. In all cases, onset of symptoms was approximately 2 1/2 hours after the workers entered a field that had been sprayed with a combination of methyl and ethyl parathion the night before, June 12. Of the 23 patients, 13 required hospitalization and 10 were treated as out-patients.

The patients were initially treated with 2 mgm atropine, intravenously, and 2 PAM**. In addition to treatment, immediate steps were taken to decontaminate the patients by removing their clothing and washing their skin to prevent further absorption of the parathion. Serum cholinesterase activity (which is depressed in organic phosphate poisonings) was determined on all patients by the Caraway method. The normal range for serum cholinesterase activity by this method is 65-100 units per ml. The values obtained for the hospitalized patients ranged from 2-8 units per ml and for the out-patients from 30-60 units per ml.

Within 3 days, all patients had completely recovered and were discharged from the hospital. Follow-up treatment for all 23 patients included atropine tablets in sufficient quantities to maintain a dry mouth and daily observation by the local physician.

On June 12 the cotton field had been sprayed with parathion. Because of a heavy dew that evening, considerable moisture was present on the cotton plants the following day. Because of this moisture and the height of the cotton plants (approximately 3 1/2 feet), the workers' clothing was thoroughly soaked soon after work started in the field. These factors contributed to increased exposure to the parathion. All 23 workers were local residents, and most of them had worked for the cotton field owner for several years and had worked with parathion in the past without any adverse effects.

(Reported by J. S. Wiserman, Ph.D., Project Director, Community Pesticides Study, Texas State Department of Health, San Benito, Texas.)

Reference:

^{**}Fever, prostration, lymphadenopathy, and hand ulcer(s)

^{*}Parathion is O,O-dimethyl O-(p-nitrophenyl) phosphorothioate
**2-PAM is 2-Pyridine aldoxime methochloride (or pralidoxime chloride)

¹Caraway, Wendell, T.: Photometric Determination of Serum Cholinesterase Activity, Am J Clin Pathol 26:945-955, 1956.

Morbidity and Mortality Weekly Report

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED JULY 13, 1968 AND JULY 15, 1967 (28th WEEK)

AREA	8 T		deriforme in		ENCEPHALITIS			HEPATITIS			
	ASEPTIC MENINGITIS		BRUCELLOSIS	DIPHTHERIA	incl	mary uding cases	Post- Infectious	Serum	um Infectious		MALARIA
	1968	1967	1968	1968	1968	1967	1968	1968	1968	1967	1968
UNITED STATES	77	59	2	1	24	21	8	67	826	665	42
EW ENGLAND	1	ATTION I	REBUT R			1	1		34	24	1
Maine	1 2	-				_	1		3	3	_
New Hampshire	_	-		-	-	_		_		3	
Vermont	_	-	- '	- 1	_			-	_	_	-
Massachusetts	-	-	- Fm	1100-1	the same			-	14	12	1
Rhode Island	1	-	-	D		-	-	-	10	1	-
Connecticut	OHO DO	T-1			-	1	107.1	-	7	5	-
TDDIR 157 1157 1	3	4	Grant Charge	Targette of	1				150	100	,
Now York City	1	2			1	3	3	21	150	109	1
New York City New York, up-State.		_				2	1	8 4	53 25	37 27	1
New Jersey	1	1	de la relation		THE RE	RAUES V	102-01	8	35	21	2
Pennsylvania	1	1	Land Landson	-	15000	1	2	1	37	24	Journal -
											.,
AST NORTH CENTRAL	14	10	-	-	7	9	Marie Land	II. Pe	156	113	3
Ohio*	7	2	to the second	THE STATE OF	3	8		FE0 150 1	39	25	-
Indiana	2 2	unc ₁ to	A SHARE WAY		1	W	1000	11.00	13	3	-
Illinois	3	7		-	2	-		-	49	45	_
Michigan	-			-	1	1			44	32	3
Wisconsin			HINE L	MARKET TO	1771		110-1-3		11	8	-
EST NORTH CENTRAL	3	1	a lignatura		3	10.00	2	2	47	45	2
Minnesota		1	-	-	2	-		2	11	7	_
Iowa		-	- 1111-2		1		1		7	5	-
Missouri		X 33.34	100000	BOAT LIKE	1	distance	and references	- J	17	30	(0119)
North Dakota	0.00	49-14-5	Of THE SHAREST VICE		-	294.16	Sidney or	Table		- 10 To 10	Tarrier -
South Dakota		-		1-1-	-	-	-	-	1	-	-
Nebraska	-	ACU Total		No. 10 - 10 A	-	34/7	ONLY SECTION	-	1	1	HOTH -
Kansas	3	PER HOLD	field metrol		100	South residence	to his board	de un la la	10	2	2
OUTH ATLANTIC	3	5	2	1 - 1 1 -	2	2		2	65	65	12
Delaware		_			1	_	-	_	3	1	12
Maryland	100	1	A STATE OF THE OWNER,	2.00	10-49	1	311/05 121/0	W VACOU	20	15	3
Dist. of Columbia	1	AMISES.	to with the last to	4-4-45	- 57	Edit of	01-	N v- III I	2	2	
Virginia	4 Floor	1	2	Residence (Sin	1	alli-ill	Annual Control	المحاطات	3	17	16.50
West Virginia		-	-	-	1000		AND DESCRIPTION	100	1	10	/ -
North Carolina	1	-		1 - 1	-	1	-	-	6	3	8
South Carolina		-	10000	SHAPE STATE	d Gently	ARKS.	-	-	2	3	-
Georgia.		-	1302	4444	2.45	D.3- 1			5	2	- :
Florida	1	3	1000	1		100	and the same	1	23	12	1
AST SOUTH CENTRAL	3	8		4.4		1		1	48	29	1
Kentucky	_	-	-		-	-			12	7	-
Tennessee	1	8	Aughtra 1	621/00v		1	3/19/2/05/6	1	29	11	() HITT
Alabama	2	200	6 3 H-D-L	of piles	-	1-110	- July - 8 1	mr Sha	3	1	diam'r.
Mississippi		mall on	- T	19.00	-		-	-	4	10	1
							111111111111111111111111111111111111111				
EST SOUTH CENTRAL	32	11	1000		3	2	THE BOX	3	48	59	-
Arkansas. *	17	1,012 30	NAKONA L	pile self-	2	Hard 1	diam're		12	2	34(20)
LouisianaOklahoma. *	1			7	1	1	Study of the last	11 - 116	5	6 5	
Texas	14	11	1	- 1	_	i	Harry D. Harry	2	31	46	-
						Or Hall	a contactile		1	199	1201
OUNTAIN	GM-HTF	10 N - 2	the state of the	HILL DO	2	1	-	-	36	40	7
Montana	46.00	121	O Sand Breeze	771 (1 to 6	1	day of	Lib Bellinger	+TTRUTTE	12	10	- 1 1 -
Idaho		-	The state of		-	-	-		2	3	
Wyoming	- 13	-		M 11-1-11-11	-1101	-	- 11	TANK-	LIN LA PROF	115-111-11	909 -
Colorado		100		7 Jan 1	1	1	e lea i distribute se	n nd mréi	5	6	7
Arizona		Jan Die	B SAN BAR	4.520	-	Y WILLY	and Sec.	Non-sel	12	13	Port 1
Utah		-			-	-			4	4	-
Nevada	F3 -190	1941	Bully of the	Druge III)	7777	4 125 257	OR NOW		1	7 7 9 10	100
		-37/10	THE BOTH THE	1.015		-48	Property of the		4 3-400	9-11	3-17
ACIFIC	18	20	Sandar Illa	- L	6	2	2	38	242	181	12
Washington		1	Allers of the A	0 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	1	-	Co. Land	-	11	19	1
Oregon		- 12		-	100	1	-	1	12	12	-
California	14	12	G and a service	10000	4	1	2	37	214	150	2
Alaska Hawaii	2 2	7	MUCH NE	127	1	a Michael	t trainin/sia	danich in	3 2	mber 4	9
			100	C 70.16	1			-		-	,

^{*} Delayed reports: Aseptic meningitis: Okla. 1 Hepatitis, infectious: Ohio delete 1, Ark. delete 1, N. Mex. 4

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED

JULY 13, 1968 AND JULY 15, 1967 (28th WEEK) - CONTINUED

	ME	ASLES (Rube	ola)	MENINGO	COCCAL INF TOTAL	ECTIONS,	MUMPS	P	RUBELLA		
AREA	Cumulative		Cumulative			Total Pa		lytic			
	1968	1968	1967	1968	1968	1967	1968	1968	1968	Cum. 1968	1968
UNITED STATES	325	18,190	55,696	36	1,729	1,475	1,270	2	2	29	427
NEW ENGLAND	20	1,100	792	1	88	58	153		932	- 1943	60
Maine*	-	35	233	1	6	3	5		-	1	69
New Hampshire	-	141	72		7	2	2		7-	IT THE SE	11
Vermont	-	1	34	-	1		-	-	74	12111	1
Massachusetts. *	9	352	308	1	38	29	88	- 1	(- 1 A	1	18
Rhode Island	-	1	60	-	7	4	29			-	21
Connecticut	11	570	85	-	29	20	29	- "	-	-	18
MIDDLE ATLANTIC	165	3,520	2,135	5	304	235	126	100		THE	61
New York City	105	1,635	411	3	65	38	101	-	-		50
New York, Up-State.	14	1,149	523	1	48	59	NN	-	-	-	5
New Jersey	44	590	477	-	111	85	25	-16	-	_	5
Pennsylvania.*	2	146	724	1	80	53	NN	-	-	- "	1
EAST NORTH CENTRAL	27	3,539	5,041	7	209	191	340	_	1,24	1	98
Ohio	3	279	1,116	2	56	66	31	-		1921	111
Indiana	2	616	579	-	28	21	18	-	22	-	5
Illinois	10	1,319	876	3	47	45	24	- 1	95114	1	27
Michigan	2	238	871	2	61	44	49	-	12	-	29
Wisconsin	10	1,087	1,599		17	15	218	-	- 11	-	26
WEST NORTH CENTRAL	7	361	2,772		86	63	42	1	1	1	11
Minnesota		15	128	-	19	15	- 72		(\$	-	1
Iowa	4	93	738		6	12	39	-	100000		7
Missouri		80	329	-	31	12	1	1	1	1	1500 a 11
North Dakota	-11-1	123	814	-	3	1		-	1	-	3
South Dakota		4	52	-	4	6	NN	-	112.113	-	
Nebraska	1	36	618	1 7	6	11	-	-		-	-
Kansas	2	10	93		17	6	2		15-11	-	
SOUTH ATLANTIC	19	1,371	6,612	5	351	286	86			1	44
Delaware		14	43		6	5	4	-30	13.	-	
Maryland	2	82	142	1 -0 -	26	34	27	- 101	1000	1 2 1	4
Dist. of Columbia		6	22		13	10	9	-93	1.		1
Virginia	1	289	2,066	1	28	35	4	6.77	1.5	and silver	6
West Virginia North Carolina	10	249 281	1,334 838	1	9	20	25	-	185	116.50	8
South Carolina	1	13	492	- 1	69 55	60 27	NN 1		200	1	
Georgia	-	4	32	1	61	43	1		22.00	11-12-0	1
Florida. *	5	433	1,643	î	84	52	16	-83	pa-to	gett	24
EAST SOUTH CENTRAL	15	620	F 000	2	140	100		100	12.0	102 117	
Kentucky.*	15 2	538 169	5,000	3	148	120	77	-10	15	1	30
Tennessee.	_	55	1,289 1,756	1	57 49	34 49	2 67	55%		1	2 27
Alabama	10	85	1,303	2	22	24	8		h 5 4		1
Mississippi	3	229	652	-	20	13	_ I	- 86	1000	-dmo-e	-
	20	, , , , ,	16 070		207	224	104	100	61.00	and the	Here to
WEST SOUTH CENTRAL	39	4,479	16,878 1,401	6	287 20	206 25	126	1	1	16	33
Louisiana		2	1,401	2	81	82	- 1	260	la la el marco		
Oklahoma, *	1	110	3,314	1	49	15	m 2 de	550	1-2	1	
Texas	38	4,365	12,014	2	137	84	126	1	1	15	33
MOUNTAIN	1.2	030	4.460	,	0.7	24	140	1 120			0.0
MOUNTAIN	12	938	4,469 275	1 -	27	26	149 5	-65	1		26
Idaho		20	368		11	1	21	150	100		1
Wyoming		50	178		-	1	-	150	-64.00		1975
Colorado	4	479	1,492	1	8	11	36	-		100 miles	4
New Mexico *	3	85	571		1 20	3	3		1-2	11 2 miles	1
Arizona	5	212	973	-	1	4	47	- 75	1 1 -	-	20
Utah		21	343	-	1	4	37	1 - 7	1 32.77	E 11 12	101-1
Nevada		5	269		3	2		- 23	1.05		- 1
PACIFIC	21	2,344	11,997	8	229	290	171	CHI.	April 1	8	55
Washington	1	514	5,384	1	37	25	5	-	1		E
Oregon*	7	454	1,515	1 3 9	17	24	15	-35	- 1	1.00	2
California	13	1,340	4,823	7	162	228	121	1.56	-	8	42
Alaska		34	128		2	9	26	- 100	Total Control		2
_ Hawaii	-	34	147		11	4	26				9

^{*} Delayed reports: Measles: Mass. delete 1, Pa. delete 10, Ore. delete 5 Meningococcal infections: Fla. 2

Mumps: N.H. 4, Okla. 2

Poliomyelitis, paralytic: Ky. 1 Rubella: Me. 3, N.H. 1, N. Mex. 4, Ore. 5

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES FOR WEEKS ENDED

JULY 13, 1968 AND JULY 15, 1967 (28th WEEK) - CONTINUED

AREA	STREPTOCOCCAL SORE THROAT & SCARLET FEVER	TET	ANUS	TULA	AREMIA	TYP	HOID	TICK	S FEVER -BORNE - Spotted)		IES IN IMALS
	1968	1968	Cum. 1968	1968	Cum. 1968	1968	Cum. 1968	1968	Cum. 1968	1968	Cum. 1968
UNITED STATES	4,907	2	75	11	113	9	156	9	100	83	1,990
NEW ENGLAND	722	-	1	6	46	1	5			3	65
Maine*	3		-	77-	-			_	-		50
New Hampshire	14		-	7	-	1	1	-	-		2
Vermont	58	0 1	-	6	46	-	-	-	-	2	10
Massachusetts Rhode Island	108 59	4.0			1 -1	-	2	(*)		1	2
Connecticut	480	65	1		1		2	-			1
MIDDLE ATLANTIC	204		10	_	7	1	13		7	2	20
New York City	8	-	5		1 1	1	7			3	
New York, Up-State.	195	-	4		7	1	3	-	1	3	14
New Jersey	NN		-	-	_				1	-	-
Pennsylvania	1		1	-	-	-	3	15-	5	- 1	6
EAST NORTH CENTRAL	404	175	8	-	7	1	24	-	3	16	184
Ohio	119	-	10	-	1	-1111	11	- 1	2	3	72
Indiana	55 60	-	1 5	100	1		3	-	-	1	60
Illinois	104		5 2		4	1	9	-	1	5	23
Wisconsin	66	21-	-		1 -	-	1	12	-	7	20
WEST NORTH CENTRAL	173		3	1	8	4		23.0			460
Minnesota	37		1	1	0	1000	8	-	3	22 11	136
Iowa	34	- 1			100	4 200	1		1	4	86
Missouri	-1 7		2	1	6	-	3		1	1	76
North Dakota	63	-	-		-	1		-	-	5	80
South Dakota	15	181	1.5	-	1		1	-	1		34
Nebraska	20	-	1.5		-	I til	3	-	1	1	23
Kansas	4		₩ -	11	1	- 66		D- 11			25
SOUTH ATLANTIC	391	40.	14	-	7	111111	39	2	54	9	220
Delaware	3						- "		-	-	
Maryland Dist. of Columbia	115 45		1	-	-		7	1	6		3
Virginia	72	4 2	2		1	1 04	2	-	0.0		87
West Virginia	123	1.4-	1	14.1	_	1	8	1	22	2	29
North Carolina			2	L .	2	1 2001	2		16	1	9
South Carolina	8		1	77-	-	1 -00			2	M100 G	-
Georgia	6	-	-	-	2	1 - 1	9	1-	6	2	33
Florida	19	-	6	- L	2	I for	11	-	2	4	59
EAST SOUTH CENTRAL	1,039	Vi	9	-	6	2	19	7	17	11	468
Kentucky	11	-	1	-	1	2	5	2	3	8	227
Tennessee	859	1 -	2	-	4		11	5	12	2	219
Alabama	115 54	± 1	3 3		1	DV, at	3		1 1	1	21
niadiadippi					DE TR	1 700	3		1	III Tarabi	- HC 1
WEST SOUTH CENTRAL	557	1	16	4	26	3	14	- I-	13	8	361
Arkansas	8		4	3	5	2	3	-	1	1	42 33
Louisiana	50	- [-]	5	1	5	1 7 1	2	17 - 1		2	107
Oklahoma Texas	498	1	7	104 1	6 10	1	4 5		6	1 4	179
MOUNTAIN	812								1		51
Montana	21	***	#1	01.4	5	15/4	9		2	4	
Idaho.	47	-	F .	U -		164	1 1		FINE TOAL	List similar	- 1
Wyoming	12	10"	- 1	1112	1	145	1		l l baal		2
Colorado	420		-	1 -	2	- 10	2	- 1	2	4	3
New Mexico	132	-	-	-		1 - 18"	6	- 1	. IJ. - (11)	-	20
Arizona	56	P (2.1	9.	-	24	30.	-	- 111 - 111	4	26
Utah Nevada	124 -	38		1 1	2	1 18				-	
	605	,	1/						P+CCC	Dell'Armie	161
PACIFIC	22	1	14	W.F	1 -	1 -	25	19	1	7	
Oregon	43	- 1	1	11-	1	-385	3		. However		3
California	383	1	12	11-1	-	1	22	- 1	1	7	158
Alaska	37	. 1	-	-	- 2	1 327	-	1. 11	The contract		
Hawaii	120	No.	-	71-1	-	-			1 1 1 1 1 1 1	-	
Puerto Rico	11		5				1			-	16

^{*} Delayed reports: SST: Me. 1, N. Mex. 41 Rabies in animals: N. Mex. 1

Week No. 28

TABLE IV. DEATHS IN 122 UNITED STATES CITIES FOR WEEK ENDED JULY 13, 1968

(3y place of occurrence and week of filing certificate. Excludes fetal deaths)

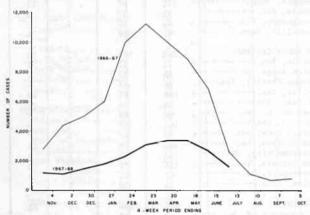
Area EW ENGLAND: Boston, Mass Bridgeport, Conn	All Ages	65 years	and	11 ****				1 and	Under
Boston, Mass Bridgeport, Conn	Ages	All of years Influ		la Under	Area	A11	65 years	and Influenza	l year
Boston, Mass Bridgeport, Conn		and over	Influenza All Ages	All Causes		Ages	and over	Influenza All Ages	All Causes
Boston, Mass Bridgeport, Conn	766	473	50	31	SOUTH ATLANTIC:	1,245	633	37	63
	231	129	17	8	Atlanta, Ga	121	46	3	5
C1	59	40	6	1	Baltimore, Md	292	155	2	15
Cambridge, Mass	21	12	101 - 161	100	Charlotte, N. C	65	25	1	2
Fall River, Mass	33	24	3	1	Jacksonville, Fla	83	45	2	4
Hartford, Conn	63	33	2	3	Miami, Fla	105	55		4
Lowell, Mass	30	18		2	Norfolk, Va	49	23	9	2
New Bedford, Mass	27 24	19 15	1	2	Richmond, Va	110 49	64 21	4	6 5
New Haven, Conn	58	34	1	5	St. Petersburg, Fla	80	63	2	4
Providence, R. I	61	35	3	3	Tampa, Fla	71	33	2	5
Somerville, Mass	11	10	_	-	Washington, D. C	179	80	6	9
Springfield, Mass	47	28	4	4	Wilmington, Del	41	23	2	2
Waterbury, Conn	40	27	-	-					
Worcester, Mass	61	49	12	2	EAST SOUTH CENTRAL: Birmingham, Ala	671	329	25	42
IDDLE ATLANTIC:	3,582	2,059	150	176	Chattanooga, Tenn	122 43	55 19	8	7
Albany, N. Y	50	31	2	4	Knoxville, Tenn	51	33	1	-
Allentown, Pa	31	19	2	3	Louisville, Ky	144	77	11	10
Buffalo, N. Y	153	80	3	13	Memphis, Tenn	132	60	2	15
Camden, N. J	56	23	3	11	Mobile, Ala	55	32	1	5
Elizabeth, N. J	49	32	2	1	Montgomery, Ala	42	17	1	-
Erie, Pa	36	19	2	4	Nashville, Tenn	82	36	-	4
Jersey City, N. J	62	34	2	5			200	111111111111111111111111111111111111111	
Newark, N. J	83	38	3	6	WEST SOUTH CENTRAL:	1,293	643	42	90
New York City, N. Y	1,721	1,000	92	73	Austin, Tex	33	22	2	1
Paterson, N. J	60	37	1	1	Baton Rouge, La	36	25	2	-
Philadelphia, Pa	519	281	9	20	Corpus Christi, Tex Dallas, Tex	26	16	1	10
Pittsburgh, Pa	238	119	7	15	El Paso, Tex	168	81	1	12
Reading, Pa Rochester, N. Y	65	47	4 -	4	Fort Worth, Tex	55	24	3	12
Schenectady, N. Y	127	87	5	3	Houston, Tex	90	48	2	7 9
Scranton, Pa	31 41	18 28	2		Little Rock, Ark	265 52	121	7 5	7
Syracuse, N. Y	117	75	1	8	New Orleans, La	180	76	5	16
Trenton, N. J	61	36	3	5	Oklahoma City, Okla	113	55	1	9
Utica, N. Y	38	23	4	1	San Antonio, Tex	154	77	3	10
Yonkers, N. Y	44	32	3	-	Shreveport, La	67	41	7	3
100	79				Tulsa, Okla	54	28	3	4
AST NORTH CENTRAL:	2,739	1,517	82	156	MOUNTA TN.				
Akron, Ohio	78	48	-	6	MOUNTAIN:	454	254	15	22
Canton, Ohio	53	29	1	2	Albuquerque, N. Mex Colorado Springs, Colo.	45	18	1	-
Chicago, Ill	792	421	18	47	Denver, Colo	25	16	2	2 2
Cincinnati, Ohio Cleveland, Ohio	137	89	5 5	9 15	Ogden, Utah	130 27	78 18	6 2	1
Columbus, Ohio	237 130	129 77	1	5	Phoenix, Ariz	91	50	2	6
Dayton, Ohio	83	42	3	5	Pueblo, Colo	23	16		1
Detroit, Mich	334	184	6	17	Salt Lake City, Utah	63	29	3	5
Evansville, Ind	42	25	2	-	Tucson, Ariz	50	29	1	5
Flint, Mich	41	19	2	5					
Fort Wayne, Ind	57	31	4	5	PACIFIC:	1,697	1,010	32	58
Gary, Ind	36	10	2	3	Berkeley, Calif	23	17	-	-
Grand Rapids, Mich	69	46	6	4	Fresno, Calif	43	23	1	1
Indianapolis, Ind	172	83	3	8	Glendale, Calif	37	27	1	-
Madison, Wis	49	20	7	3	Honolulu, Hawaii	50 114	21 66	3	3
Milwaukee, Wis	136	87	3	6	Long Beach, Calif	498	303	6	20
Peoria, Ill	58	34	3	6	Los Angeles, Calif Oakland, Calif	114	68	4	5
Rockford, Ill	34	22	3	2	Pasadena, Calif	38	29		1
South Bend, Ind Toledo, Ohio	100	31	2	1	Portland, Oreg	127	80	1	5
Youngstown, Ohio	100	60	2	6	Sacramento, Calif	73	40	1	-
Singarowii, Olito	56	30	2	1	San Diego, Calif	99	55	5	4
WEST NORTH CENTRAL:	859	458	19	54	San Francisco, Calif	201	114	1	4
Des Moines, Iowa	82	48	3	6	San Jose, Calif	28	22	1	1
Duluth, Minn	24	16	1	-	Seattle, Wash		80	5	6
Kansas City, Kans	36	12	2	5	Spokane, Wash	59	40	1	2
Kansas City, Mo	127	66	1000	10	Tacoma, Wash	42	2.5	2	2
Lincoln, Nebr	24	14	1	2		10.000	7 07/	150	600
Minneapolis, Minn	116	71	2	8	Total	13,306	7,376	452	692
Omaha, Nebr	79	41	Service of the service of	2	WHITE STEEL STEEL TO	mula+4	Totals		
St. Louis, Mo	249	123	6	17		mulative		previous	eeke
St. Paul, Minn	87	47	1	4	including report	ed correc	LIUMS TUF	breatons M	CAS
Wichita, Kans	35	20	3		All Causes, All Ages			364.2	50
THE RESERVE AND DESCRIPTION OF THE PERSON OF	4 1				All Causes, Age 65 and	over		211.59	96
					Pneumonia and Influenza	. All Ace	s	15.63	30

CURRENT TRENDS MEASLES - United States

For the week ending July 13, 1968, 325 cases of measles were reported to NCDC. This is the third consecutive week in which the reported cases have totaled fewer than 500 cases per week. The reported cases, since the week ending January 13 when 483 cases were reported, have ranged from 517 to 949.

From June 16 through July 13, 1968, (weeks 25-28), 1,580 cases of measles were reported. This is 1,125 fewer cases than the 2,705 reported for the preceding 4-week period and is 60 percent of the 2,653 cases reported for the corresponding 4 weeks in 1967 (Figure 2). The cumulative total for the first 40 weeks of the current measles epidemiologic year* is 32.5 percent of the 67,889 cases reported during the comparable 40-week period in epidemiologic year 1966-67.

Figure 2 REPORTED CASES OF MEASLES BY 4-WEEK PERIODS UNITED STATES EPIDEMIOLOGIC YEAR 1967-68, COMPARED WITH 1966-67



(Reported by State Services Section, and Statistics Section, Epidemiology Program, NCDC.)

ERRATUM, Vol. 17, No. 27, p. 254

In the article "Shigella - July-December 1967," paragraph two is incorrect. Please substitute the following corrected paragraph:

"Of the total of 6,556 isolations, 5,113 were classified by serotype. These 5,113 shigella isolations represented 23 serotypes. The six most frequently reported serotypes during the 6-month period are presented in Table 2."

In the same article in Table 2, the word "Total" should be substituted for the word "Subtotal" and the lines "Specimens not typed 1,638" and "Total 6,556" should be deleted.

THE MORBIDITY AND MORTALITY WEEKLY REPORT, WITH A CIRCULA-TION OF 17,000, IS PUBLISHED AT THE NATIONAL COMMUNICABLE DISEASE CENTER, ATLANTA, GEORGIA.

DIRECTOR, NATIONAL COMMUNICABLE DISEASE CENTER
DAVID J. SENCER, M.D.
CHIEF, EPIDEMIOLOGY PROGRAM
A.D. LANGMUIR, M.D.
ACTING CHIEF, STATISTICS SECTION
IDA L. SHERMAN, M.S. MICHAEL B. GREGG, M.D. FOITOR

IN ADDITION TO THE ESTABLISHED PROCEDURES FOR REPORTING MOBIDITY AND MORTALITY, THE NATIONAL COMMUNICABLE DISEASE CENTER WELCOMES ACCOUNTS OF INTERESTING OUTBREAKS OR CASE INVESTIGATIONS WHICH ARE OF CURRENT INTEREST TO HEALTH OFFICIALS AND WHICH ARE DIRECTLY RELATED TO THE CONTROL OF COMMUNICABLE DISEASES. SUCH COMMUNICATIONS SHOULD BE

NATIONAL COMMUNICABLE DISEASE CENTER ATLANTA, GEORGIA 30333 THE EDITOR MORBIDITY AND MORTALITY WEEKLY REPORT

NOTE: THE DATA IN THIS REPORT ARE PROVISIONAL AND ARE BASED ON WEEKLY TELEGRAMS TO THE NCDC BY THE INDIVIDUAL STATE HEALTH DEPARTMENTS. THE REPORTING WEEK CONCLUDES ON SATURDAY; COMPILED DATA ON A NATIONAL BASIS ARE RELEASED ON THE SUCCEEDING FRIDAY

> HEALTH SERVICES AND MENTAL HEALTH ADMINISTRATION NATIONAL COMMUNICABLE DISEASE CENTER ATLANTA, GEORGIA 30333 TH, EDUCATION, AND WELFARE PUBLIC HEALTH SERVICE

OFFICIAL BUSINESS

COMMUNICABLE DISEASE CENTER

U. S. DEPARTMENT OF H. POSTAGE AND FEES m *

^{*}The epidemiologic year for measles begins with week 41 of the calendar year and ends with week 40 of the succeeding year.